

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Michael Detmar, Joseph P. Vacanti, Michael Streit, and  
Antonia E. Stephen

Serial No: 09/822,161

Art Unit: Not yet assigned

Filed: March 30, 2001

Examiner: Not yet assigned

For: DELIVERY OF THROMBOSPONDIN FROM IMPLANTABLE  
TISSUE MATRICES

Box Missing Parts  
Assistant Commissioner for Patents  
Washington, D. C. 20231

**POWER OF ATTORNEY BY ASSIGNEE  
OF ENTIRE INTEREST AND REVOCATION OF PRIOR POWERS**

Sir:

As owner of the entire interest of the above-identified patent application,  
as evidenced by the attached Statement Under 37 C.F.R. § 3.73(b), all powers of  
attorney previously given are hereby revoked and the following attorneys and  
agents are hereby appointed to prosecute and transact all business in the Patent  
and Trademark Office connected therewith:

Patrea L. Pabst  
Zhaoyang Li

Registration No. 31,284  
Registration No. 46,872

U.S.N. 09/822,161  
Filed: March 30, 2001  
Power of Attorney by Assignee  
of Entire Interest and  
Revocation of Prior Powers

Please send all correspondence relating to the above-identified patent application to:

Patrea L. Pabst  
HOLLAND & KNIGHT LLP  
2000 One Atlantic Center  
1201 West Peachtree Street, N.E.  
Atlanta, Georgia 30309-3400

(404) 817-8473 - Telephone  
(404) 817-8588 - Fax

The undersigned signatory (whose title is supplied below) is empowered to act on behalf of the assignee identified below, and has reviewed all the documents in the chain of title of the patent application and, to the best of undersigned's knowledge and belief, title is in the assignee.

**THE GENERAL HOSPITAL  
CORPORATION**

By: 

Name: FRANCES TONEGUZZO, Ph.D.  
CORPORATE SPONSORED RESEARCH AND LICENSING  
DIRECTOR

Title: \_\_\_\_\_

Date: 7-5-01

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Michael Detmar, Joseph P. Vacanti, Michael Streit, and Antonia E. StephenApplication No./Patent No.: 09/822,161 Filed/Issue Date: March 30, 2001Entitled: DELIVERY OF THROMBOSPONDIN FROM IMPLANTABLE TISSUE MATRICES

The General Hospital Corporation, a Corporation

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

in the patent application/patent identified above by virtue of either:

- A. [☒] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

- B. [ ] A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

[ ] Additional documents in the chain of title are listed on a supplemental sheet.

- [ ] Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

7-5-01

Date

FRANCES TONEGUZZO, Ph.D.  
CORPORATE SPONSORED RESEARCH AND LICENSING  
DIRECTOR

Typed or printed name

Signature

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

## ASSIGNMENT

We, Michael Detmar of 87 Quincy Street, Arlington, Massachusetts 02476, Joseph P. Vacanti of 14 Woodside Road, Winchester, Massachusetts 01890, Michael Streit of 19 Snow Hill Street, Boston, Massachusetts 02113, and Antonia E. Stephen of 112 Myrtle Street, Apt. 6, Boston, Massachusetts 02114, in consideration of ten dollars and other valuable consideration paid to us by The General Hospital Corporation, a corporation of the Commonwealth of Massachusetts, having its principal place of business at 55 Fruit Street, Boston, Massachusetts 02114, the receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto said The General Hospital Corporation, its successors and assigns, the entire interest for the United States of America, and its territories and all foreign countries and jurisdictions, including all rights of priority under the International Convention for the Protection of Industrial Property, in a certain invention or improvement in "*Delivery of Thrombospondin from Implantable Tissue Matrices*" described in U.S. Serial No. 09/822,161 filed in the United States Patent and Trademark Office on March 30, 2001, by Michael Detmar, Joseph P. Vacanti, Michael Streit, and Antonia E. Stephen, which is a continuation-in-part of U.S. Serial No. 09/536,087 filed in the United States Patent and Trademark Office on March 24, 2000, which claims priority to U.S. Provisional Application Serial No. 60/127,221 filed in the United States Patent and Trademark Office on March 31, 1999, and which is a continuation-in-part of U.S. Serial No. 09/770,339 filed in the United States Patent and Trademark Office on January 26, 2001, which claims priority to U.S. Provisional Application Serial No. 60/178,842 filed in the United States Patent and Trademark Office on January 27, 2000, and in all Letters Patent of the United States and its territories and all foreign countries and jurisdictions which may or shall be granted on said invention, or any parts thereof, or on said application, or any provisional, divisional, continuation, continuation-in-part, reissue, or other applications based in whole or in part thereon. And we agree, for ourselves and our executors and administrators, with said corporation and its successors and assigns, but at its or their expense or charges, hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper to secure the grant of Letters Patent in the United States and its territories and in all other foreign countries and jurisdictions to said corporation, with specifications and claims in such form as shall be approved by the counsel of said corporation, and to vest and confirm in said corporation, its successors and assigns, the legal title to all such patents.

Title: "Delivery of Thrombospondin from Implantable Tissue Matrices"  
By: Michael Detmar, Joseph P. Vacanti, Michael Streit,  
and Antonia E. Stephen  
Filed: March 30, 2001  
ASSIGNMENT

And we do hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said corporation, its successors and assigns.

WITNESS my hand and seal this 18th day of April, 2001.

Michael Detmar  
Michael Detmar

Commonwealth of Massachusetts )  
County of Suffolk )

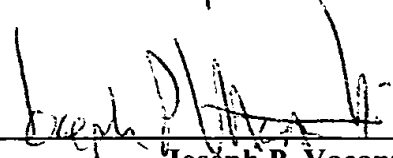
Then personally appeared the above named Michael Detmar and acknowledged the foregoing instrument to be his free act and deed, before me this 18 day of April, 2001.

Elizabeth L. Thompson  
Notary Public

My Commission expires: \_\_\_\_\_  
ELIZABETH L. THOMPSON  
Notary Public  
My Commission Expires  
January 6, 2006

Title: "Delivery of Thrombospondin from Implantable Tissue Matrices"  
By: Michael Detmar, Joseph P. Vacanti, Michael Streit,  
and Antonia E. Stephen  
Filed: March 30, 2001  
ASSIGNMENT

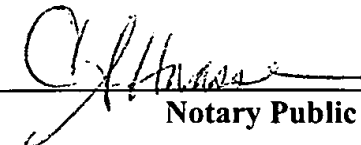
WITNESS my hand and seal this 23<sup>rd</sup> day of April, 2001.

  
\_\_\_\_\_  
Joseph P. Vacanti

Commonwealth of Massachusetts )

County of SUFFOLK )

Then personally appeared the above named Joseph P. Vacanti and acknowledged  
the foregoing instrument to be his free act and deed, before me this 23<sup>rd</sup> day of  
April, 2001.

  
\_\_\_\_\_  
Notary Public

My Commission expires: 8/4/2006

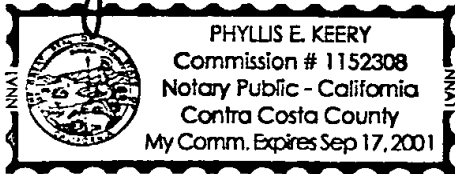
Title: "Delivery of Thrombospondin from Implantable Tissue Matrices"  
By: Michael Detmar, Joseph P. Vacanti, Michael Streit,  
and Antonia E. Stephen  
Filed: March 30, 2001  
ASSIGNMENT

WITNESS my hand and seal this 14 day of May, 2001.

Michael Streit  
Michael Streit

California  
~~Commonwealth of Massachusetts~~ )  
County of Contra Costa

Then personally appeared the above named Michael Streit and acknowledged the foregoing instrument to be his free act and deed, before me this 14 day of May, 2001.



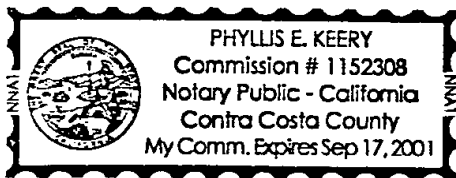
Phyllis E. Keery  
Notary Public

My Commission expires: \_\_\_\_\_

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

State of California  
County of Contra Costa  
On May 14, 2001 before me, Phyllis E. Keery  
Date and Title of Officer (e.g., "Jane Doe, Notary Public")  
personally appeared Michael Street  
Name(s) of Signer(s)

☒ personally known to me – OR – ☐ proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Phyllis E. Keery  
Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: \_\_\_\_\_

Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here

Signer's Name: \_\_\_\_\_

- ☐ Individual  
☐ Corporate Officer  
Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Attorney-in-Fact  
☐ Trustee  
☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

RIGHT THUMBPRINT  
OF SIGNER  
Top of thumb here



Title: "Delivery of Thrombospondin from Implantable Tissue Matrices"  
By: Michael Detmar, Joseph P. Vacanti, Michael Streit,  
and Antonia E. Stephen  
Filed: March 30, 2001  
ASSIGNMENT

WITNESS my hand and seal this 11<sup>th</sup> day of May, 2001.

Antonia E. Stephen  
Antonia E. Stephen

Commonwealth of Massachusetts )

County of Suffolk )

Then personally appeared the above named Antonia E. Stephen and acknowledged the foregoing instrument to be her free act and deed, before me this 11<sup>th</sup> day of May, 2001.

C. J. Hulse  
Notary Public

My Commission expires: 7/7/06